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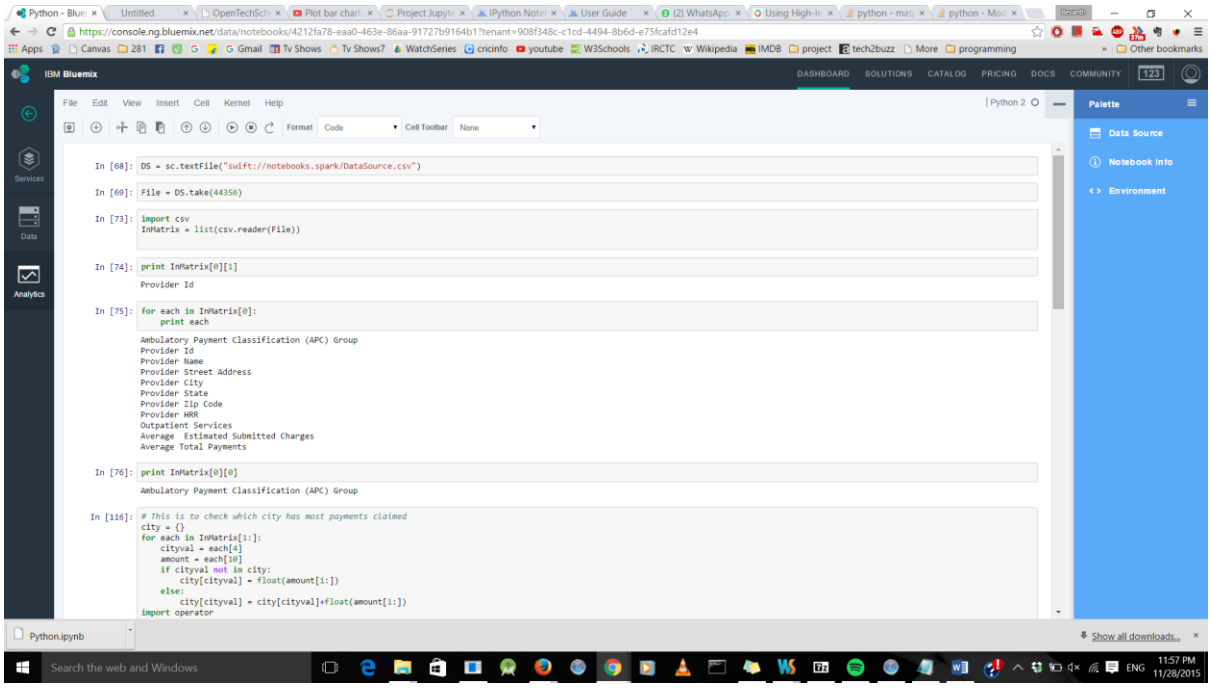
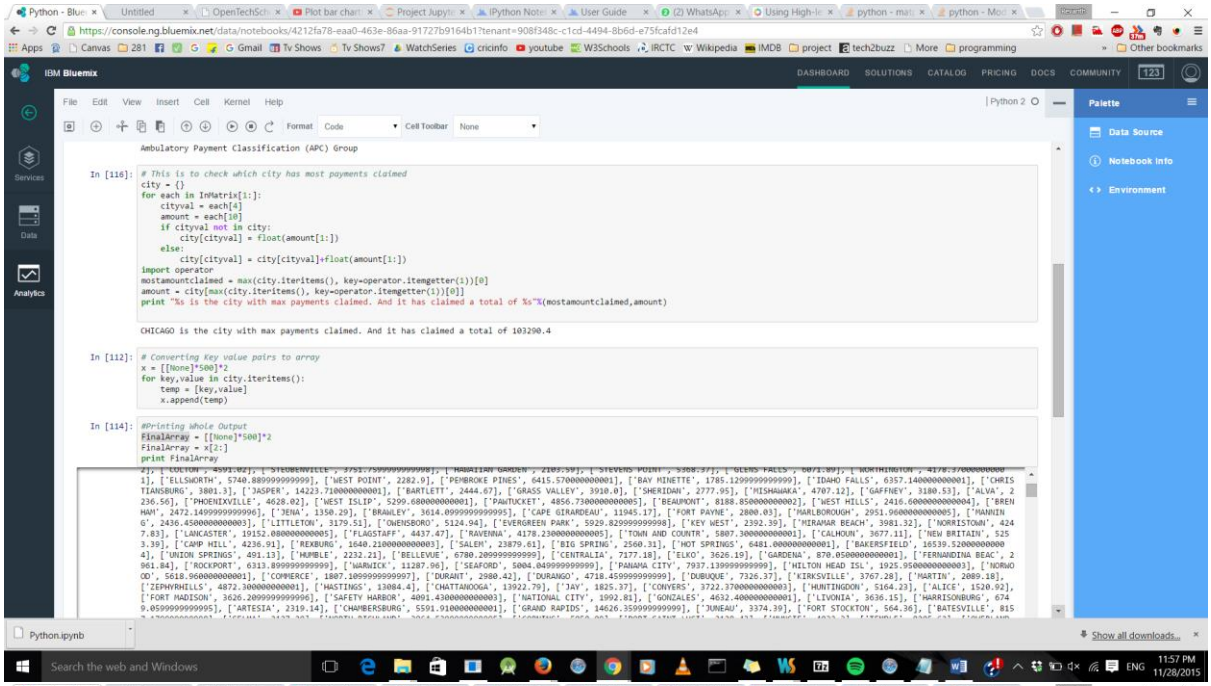
Extra Credit Assignment

Github Link: https://github.com/revaries/CMPEC72_ExtraCredit.git

Steps to Reproduce:

- Create an Apache Spark Service in IBM Bluemix
- Create a new Instance of Spark and also the Object Data Store
- Create a New notebook with python
- Drag and drop the data object

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Data Source
Notebook Info
Environment
Ambulatory Payment Classification (APC) Group
In [116]:
# This is to check which city has most payments claimed
city = {}
for each in InMatrix[1:]:
cityval = each[4]
amount = each[10]
if cityval not in city:
city[cityval] = float(amount[1:])
else:
city[cityval] = city[cityval]+float(amount[1:])
import operator
mostamountclaimed = max(city.iteritems(), key=operator.itemgetter(1))[0]
amount = city[max(city.iteritems(), key=operator.itemgetter(1))[0]]
print "%s is the city with max payments claimed. And it has claimed a total of %s"%(mostamountclaimed,amount)
CHICAGO is the city with max payments claimed. And it has claimed a total of 103290.4
In [112]:
# Converting Key value pairs to array
x = [[None]*500]*2
for key,value in city.iteritems():
temp = [key,value]
x.append(temp)
In [114]:
#Printing Whole Output
FinalArray = [[None]*500]*2
FinalArray = x[2:]
print FinalArray
Python.ipynb
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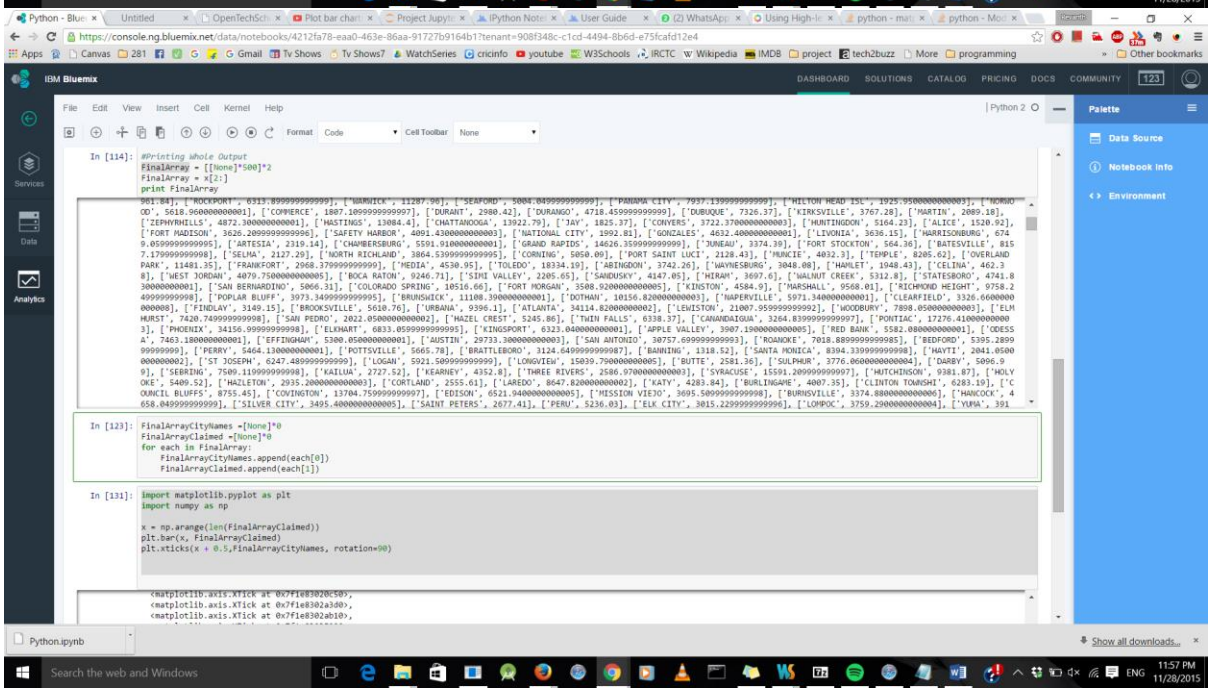
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In [114]:
#Printing Whole Output
FinalArray = [[None]*500]*2
FinalArray = x[2:]
print FinalArray
In [123]:
FinalArrayCityNames =[None]*0
FinalArrayClaimed =[None]*0
for each in FinalArray:
FinalArrayCityNames.append(each[0])
FinalArrayClaimed.append(each[1])
In [131]:
import matplotlib.pyplot as plt
import numpy as np
x = np.arange(len(FinalArrayClaimed))
plt.bar(x, FinalArrayClaimed)
plt.xticks(x + 0.5,FinalArrayCityNames, rotation=90)
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